Collision type decision device

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US6728604 (B2)
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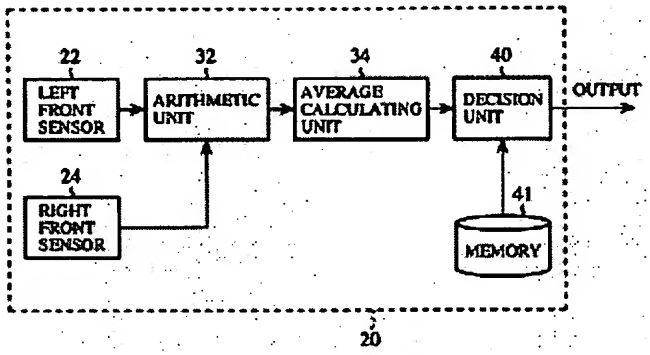
Abstract of correspondent: **US2003074111**

A collision type decision device includes left and right deceleration detectors, an arithmetic unit, an average calculating unit, and a decision unit. The left and right deceleration detectors are located at left and right front portions of a vehicle for detecting decelerations at the left and right front portions, respectively. The arithmetic unit calculates the decelerations detected by the deceleration detectors to obtain arithmetic results with respect to the left and right portions of the vehicle. The average calculating unit calculates an average of the arithmetic results. The decision unit compares the average with a threshold and decides whether a collision type of the vehicle is a symmetric or asymmetric on the basis of the comparison.



Format Examples

US Patent
US6024053 or 6024053

US Design Patent
D0318249

US Plant Patents
PP8901

US Reissue
RE35312

US SIR
H1523

US Patent Applications
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GER 2003-04-30 10223522 **KOLLISIONSFORM-ENTSCHEIDUNGSEINRICHTUNG**

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EXEMPLARY CLAIMS- 1. Collision form decision mechanism (20, 20 A, 220,230), those covers: a left and right delay detector (22, 24), which at the left and/or right front of a vehicle (10) to the collection of delays at the left and/or which right front it is arranged an average computation unit (34) to the computation of an average value on the basis of the delays seized by the left and right delay detector and a decision unit (40, 42, 46) to the comparison of the average with a threshold value and for decision on the basis of a comparison whether it concerns with a collision form of the vehicle a symmetrical or an

asymmetrical. 2. Collision form decision mechanism (20, 20 A, 220,230) according to requirement 1, furthermore an arithmetic unit (32, 38) to the computation of the delays for the preservation of results of computation regarding the left and right part of the vehicle (10), seized by the delay detectors (22, 24), whereby the average computation unit (34) with the results of computation computes an average. 3. Collision form decision mechanism (20, 20 A, 220,230) according to requirement 1, whereby the average computation unit (34) computes an average of the delays it was seized, those by the right and by the left delay detector (22, 24). 4. Collision form decision mechanism (320) after oneof the requirements 1 to 3, furthermore covers: a central delay detector (26), which is arranged in the middle part of the vehicle forthe collection of a delay at the middle part, whereby the decision unit (46) compares the threshold value with a change of the average, which was computed by the average computation unit (34) for one time interval, before a value on the basis of the delay in the middle part achieves a certain size, and on the basis of the comparison decides whether a collision form of the vehicle is symmetrical or asymmetrical, and no decision over the collision form of the vehicle on the basis of the left and the right delay spends, after the value which is based on the

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